

IN THE CLAIMS:

Please cancel Claim 1, without prejudice to or disclaimer of the subject matter recited therein. Please amend Claims 2, 3, 5, and 7, as follows.

1. (Canceled)

2. (Currently Amended) An optical space transmitter ~~according to claim 1~~,
comprising:

a light source for emitting a light beam modulated according to a signal to
be transmitted;

an optical system for sending out the light beam emitted from said light
source as a transmission light beam with an angle of expansion;

a temperature detector for detecting the internal temperature of said optical
space transmitter;

control means for controlling said optical space transmitter such that the
angle of expansion increases when the internal temperature detected by said temperature
detector rises; and

angle correcting means for correcting the angular displacement between the
light beam to be transmitted and a received light beam,

wherein said control means includes a computing circuit for determining by
computation an appropriate angle of expansion of the light beam to be transmitted on the
basis of the temperature detected by said temperature detector and a drive means for
driving at least part of said optical system in the direction of the optical axis according to
the outcome of the computation of the computing circuit.

3. (Currently Amended) An optical space transmitter ~~according to claim 1,~~
further comprising:

a light source for emitting a light beam modulated according a signal to be transmitted;

an optical system for sending out the light beam emitted from said light source as a transmission light beam with an angle of expansion;

a temperature detector for detecting the internal temperature of said optical space transmitter;

a controller for controlling said optical transmitter such that the angle of expansion increases when the internal temperature detected by said temperature detector rises;

an angle corrector for correcting the angular displacement between the light beam to be transmitted and a received light beam; and

a light receiver for detecting the angular displacement between the light beam to be transmitted and the received light beam

~~light receiving means for converting a reception signal transmitted from another device and taken into said optical space transmitter so as to make the optical axis thereof agree with the optical axis of the light beam to be transmitted into an electric signal.~~

4. (Canceled)

5. (Currently Amended) An optical space transmitter ~~according to claim 1,~~
comprising:

a light source for emitting a light beam modulated according to a signal to be transmitted;

an optical system for sending out the light beam emitted from said light source as a transmission light beam with an angle of expansion;

a temperature detector for detecting the internal temperature of said optical space transmitter;

control means for controlling said optical space transmitter such that the angle of expansion increases when the internal temperature detected by said temperature detector rises; and

angle correcting means for correcting the angular displacement between the light beam to be transmitted and a received light beam,

wherein said angle correcting means has a tracking mirror arranged on the optical path of the light beam to be transmitted and the received light beam and an actuator for changing the angle of the tracking mirror.

6. (Previously Presented) An optical space transmitter according to claim 5, wherein said optical system includes a beam splitter for separating the received light beam from the light beam to be transmitted and a half mirror for dividing the received light beam separated by the beam splitter into two light beams, said light receiving means includes a first photodetector for receiving one of the two light beams produced by said half mirror by dividing the incoming light beam and detecting it as main signal and a second photodetector for receiving the other light beam and detecting the angular displacement between the light beam to be transmitted and the received light beam, and said actuator is adapted to change the angle of the tracking mirror according to the output signal of said second photodetector.

7. (Currently Amended) An optical space transmitter ~~according to claim 1~~,
comprising:

a light source for emitting a light beam modulated according to a signal to
be transmitted;

an optical system for sending out the light beam emitted from said light
source as a transmission light beam with an angle of expansion;

a temperature detector for detecting the internal temperature of said optical
space transmitter;

control means for controlling said optical space transmitter such that the
angle of expansion increases when the internal temperature detected by said temperature
detector rises; and

angle correcting means for correcting the angular displacement between the
light beam to be transmitted and a received light beam.

wherein said control means controls the device such that the angle of
expansion decreases when the internal temperature detected by said temperature detector
falls.